

WHAT IS CLAIMED IS:

1. A method for recording video images onto film media comprises:
  - orienting a flat panel display relative to a film recording device;
  - receiving a first frame of video data and a second frame of video data;
  - displaying a first display image on the flat panel data, wherein the first display image is determined in response to the first frame of video data; and
  - while displaying the fist display image on the flat panel display, exposing a portion of the film media with the film recording device.
2. The method of claim 1 further comprising:
  - displaying a second display image on the flat panel data, wherein the second display image is determined in response to the second frame of video data; and
  - while displaying the fist display image on the flat panel display, exposing a portion of the film media with the film recording device.
- 15 3. The method of claim 2 wherein the second display image is determined in response to a weighted average of the first frame of video data and the second frame of video data.
4. The method of claim 1  
20 wherein the first frame of video data and the second frame of video data are associated with a video frame rate;  
wherein the film recording device is associated with a film frame rate; and  
wherein the video frame rate is related to the film frame rate in a way selected from the group: greater than, approximately equal, less than.
- 25 5. The method of claim 4 wherein a display format for the first frame of video data is selected from the group: NTSC, PAL, SECAM, 720p, 720i, 1080i, 1080p.

6. The method of claim of claim 4 further comprising:

determining the first frame of video data from video data encoded in an encoding format selected from: Windows Media Video, AVI, MPEG-1, MPEG-2, MPEG-4, MJPEG, DivX, Quicktime, RealMedia, H.261, H.263.

5

7. The method of claim 1 further comprising:

printing a release print from to the film media; and  
projecting images from the release print to an audience.

10 8. The method of claim 7 wherein the video data comprises streaming  
video data.

9. A recording system comprises:

15 a flat panel display configured to display a first video frame and a second  
video frame;  
a control unit coupled to the flat panel display, configured to receive video  
data including data associated with the first video frame and data associated with the second  
video frame, wherein the control unit is also configured to determine the first video frame in  
response to the data associated with the first video frame and configured to determine the  
20 second video frame in response to the data associated with the second video frame, and  
wherein the control unit is also configured to drive the flat panel display with the first video  
frame and the second video frame;

a film recorder configured to record images displayed on the flat panel  
display; and

25 an adjustment mechanism coupled to the flat panel display and to the film  
recorder, the adjustment mechanism configured to adjust the orientation of the flat panel  
display relative to the film recorder.

10. The recording system of claim 9

30 wherein the control unit is also coupled to the film recorder, and

wherein the control unit is also configured to direct the film recorder to open and close a shutter.

11. The recording system of claim 9 wherein the video data is encoded in a  
5 display format selected from the group: NTSC, PAL, SECAM, 720p, 720i, 1080i, 1080p.

12. The recording system of claim 9 wherein the video data is encoded in an encoding format selected from: Windows Media Video, AVI, MPEG-1, MPEG-2, MPEG-4, MJPEG, DivX, Quicktime, RealMedia, H.261, H.263.

10

13. The recording system of claim 9 wherein the film recorder is configured to record an image of the first video frame in a first frame of film media and is configured to record an image of the second video frame in a second frame of the film media.

15

14. The recording system of claim 9 further comprising:  
an external illumination source configured to illuminate the flat panel display;  
wherein the external illumination source is selected from the group: LED, strobe lamp, digital light projector.

20

15. The recording system of claim 9 further comprising:  
a digital light projector coupled to the control unit, the digital light projector configured to illuminate the flat panel display;  
wherein the control unit is also configured to drive the digital light projector with the first video frame while the flat panel display is driven with the first video frame.

25

16. The recording system of claim 9 wherein a frame rate for the first video frame is substantially similar to a frame rate for film.

17. A method for transferring video data to film comprises:

positioning a film camera and a flat panel display relative to each other such that an optical-axis of the film camera is substantially parallel to an optical-axis of the flat panel display;

5           receiving at least a portion of a stream of video data;

      determining first data for a first image from the portion stream of video data;

      driving the flat panel display with the first data;

      displaying the first image on the flat panel display in response to the first data;

      recording the first image onto a first frame of film media with the film camera;

      advancing the film media;

10          determining second data for a second image from the portion of the stream of video data;

      driving the flat panel display with the second data;

      displaying the second image on the flat panel display in response to the second data; and

15          recording the second image onto a second frame of film media with the film camera.

18.       The method of claim 17 further comprising:

      driving a digital light projector with the first data; and

20          projecting the first image onto a back side of the flat panel display to thereby illuminate the flat panel display.

19.       The method of claim 17 further comprising illuminating at least a portion of the flat panel display with a light source selected from the group: LEDs, strobe lamps.

20.       The method of claim 17 wherein the stream of video data is encoded in a display format selected from the group: NTSC, PAL, SECAM, 720p, 720i, 1080i, 1080p.

21. The method of claim 17 wherein the stream of video data is encoded in an encoding format selected from: Windows Media Video, AVI, MPEG-1, MPEG-2, MPEG-4, MJPEG, DivX, Quicktime, RealMedia, H.261, H.263.

5 22. The method of claim 17 wherein a frame rate for the stream of video data compared to a frame rate for the film media is selected from the group: substantially equal, greater, lesser.

10 23. The method of claim 17 further comprising:  
a) advancing the film media;  
b) determining third data for a third image from the portion of the stream  
of video data;  
c) driving the flat panel display with the third data;  
d) displaying the third image on the flat panel display in response to the  
15 second data;  
e) recording the third image onto a third frame of film media with the  
film camera;  
f) repeating steps a)-f) for recording additional images onto subsequent  
frames of the film media; and  
20 g) determining an approximate number of frames of film media that are  
recorded; and  
h) determining a cost for transferring the video data to film in response to  
the approximate number of frames.

25 24. The method of claim 17  
wherein the first data is associated with a single video frame; and  
wherein the second data is associated with more than one video frame.